

48257205 : MAJOR : EDUCATIONAL TECHNOLOGY
 KEYWORD : COMPETENCY FRAMEWORK/INFORMATION AND COMMUNICATION
 TECHNOLOGY/ICT MODEL SCHOOL
 SIRIRAT JUNMANEE : THE STUDY OF COMPETENCY FRAMEWORK OF USING
 INFORMATION COMMUNICATION AND TECHNOLOGY OF TEACHERS IN ICT MODEL SCHOOL.
 THESIS ADVISORS : ASSOC. PROF.SIRIPONG PAYOMYAM, NAREE KUHARUENGRONG,
 Ph.D. AND RANGSUN WIBOONUPPATUM, Ph.D. 169 pp.

The purposes of this research were 1) to study the opinions of administrators, master teachers in using information and communications technology, and teachers of ICT Model School in using information and communications technology 2) to study of the specialists opinions concerning the competencies of teachers in using information and communications technology 3) to propose the competencies of teachers in using information and communications technology The Samples consisted of 14 school administrators of ICT model school, 14 master teachers in using information and communications technology of ICT model school, 325 teachers of ICT model school and 6 specialists. The instruments employed were focus group guidelines, questionnaire and index of item objective congruence forms. The analyses of the data were conducted for frequency, percentage, arithmetic mean, standard deviation and content analysis The results indicated the competencies framework of using in formation and communications technology as follows :

1. Knowledge competencies, consist of 7 areas of knowledge, namely, 1) knowledge of Thai and English for communication and knowledge acquisition, 2) knowledge of the practical use of computer: operation system, data recording and interface equipments, 3) knowledge of the application programs : word processing program , presentation program, etc., 4) knowledge of the Internet and data search, 5) knowledge of how to select information and communications technology for classroom, how to apply the computer programs, how to apply and keep up with information and communications technology ,and how to develop classroom media and materials, 6) knowledge of computer maintenance : how to save or delete data onto memory units, how to prevent and eliminate computer virus, and how to keep computer properly, and 7) knowledge of rules,regulations, and laws regarding information and communications technology.

2. Skills competencies, consist of 6 areas of skills ,namely, 1) skills of Thai ,English, and computer and internet terms for communication, 2) skills of the practical use of computer: operation system, data recording and interface equipments, 3) skills of the application programs : word processing program, presentation program, spread sheet program, and the program to prevent and eliminate computer virus, etc., 4) skills of the Internet , data search, and e-mail, 5) skills of information and communications technology application in classroom : how to select proper computer programs for learning and instruction; how to use information and communications technology properly consistent with curriculum, content, and objectives; how to use multimedia in teaching; how to use search engine; how to use e-mail, webboard, and chat programs in classroom; how to use computer in classroom presentations(lecturing and teaching materials, papers and reports, etc.); how to apply computer in teaching, student evaluation, analysis of data.

3. Attitude competencies, consist of 4 areas of attitude, namely, 1) attitude toward using information and communications technology in classroom: satisfaction from the use of computer, confidence in classroom use of information and communications technology, attempts to solve the proble m while using computer, needs of information and communications technology for learning & instruction, team & network building among information and communications technology users, initiation of new information and communications technology innovations, and awareness of using self-produced teaching aids, 2) attitude toward information and communications technology values & benefits : benefits of website,and the use of information and communications technology for life-long education, 3) attitude toward acquiring further education & knowledge: education & knowledge improvement via information and communications technology, keeping in touch with information and communications technology advancement, and continuous motivation of information and communications technology self-learning, and 4) attitude toward accountability for information and communications technology use: public mindedness to provide information and communications technology services, conscience about information and communications technology abuse, self-discipline and respect for rules & regulations in using public services of information and communications technology (e.g. copyright,and information and communications technology laws)

Department of Educational Technology Graduate School, Silpakorn University Academic Year 2009

Student's signature.....

Thesis Advisors' signature 1..... 2..... 3.....